

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0609.4430001/JAG/CMBAPPLICATION NO.
09/696,982APPLICANT
Bringham et al.FILING DATE
October 27, 2000GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
2	AA1	5,462,856	10/31/1995	Lerner et al.	435	7.21	07/16/1991
2	AB1	5,494,806	02/27/1996	Segre et al.	435	69.1	04/06/1992
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
2	AL1	WO 93/11257	06/10/1993	WIPO			Yes No
2	AM1	AU 668118	06/28/1993	Australia			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	1	Abou-Samra, A.B., et al., "Cyclic Adenosine 3', 5'-Monophosphate (cAMP)-Dependent and cAMP-Independent Regulation of Parathyroid Hormone Receptors on UMR 106-01 Osteoblastic Osteosarcoma Cells," <i>Endocrinology</i> 129:2547-2554, The Endocrine Society (1991).
2	AS	1	Abou-Samra, A.-B., et al., "Expression cloning of a common receptor for parathyroid hormone and parathyroid hormone-related peptide from rat osteoblast-like cells: A single receptor stimulates intracellular accumulation of both cAMP and inositol triphosphates and increases intracellular free calcium," <i>Proc. Natl. Acad. Sci. USA</i> 89:2732-2736, The National Academy of Sciences of the USA (1992).
2	AT	1	Abou-Samra, A.B., et al., "Down-Regulation of Parathyroid (PTH)/PTH-Related Peptide Receptor Immunoreactivity and PTH Binding in Opossum Kidney Cells by PTH and Dexamethasone," <i>Endocrinology</i> 135:2588-2594, The Endocrine Society (1994).

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John M

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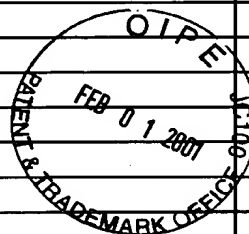
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	AR	2	Adams, A.E., <i>et al.</i> , "Probing the Bimolecular Interactions of Parathyroid Hormone and the Human Parathyroid Hormone/Parathyroid Hormone-Related Protein Receptor. 2. Cloning, Characterization, and Photoaffinity Labeling of the Recombinant Human Receptor," <i>Biochemistry</i> 34:10553-10559, The American Chemical Society (1995).
	AS	2	Azarani, A., <i>et al.</i> , "Parathyroid Hormone and Parathyroid Hormone-related Peptide Activate the Na ⁺ /H ⁺ Exchanger NHE-1 Isoform in Osteoblastic Cells (UMR-106) via a cAMP-dependent Pathway," <i>J. Biol. Chem.</i> 270:23166-23172, The American Society for Biochemistry and Molecular Biology, Inc. (1995).
	AT	2	Azarani, A., <i>et al.</i> , "Structurally Diverse N-terminal Peptides of Parathyroid Hormone (PTH) and PTH-related Peptide (PTHrP) Inhibit the Na ⁺ /H ⁺ Exchanger NHE3 Isoform by Binding to the PTH/PTHrP Receptor Type I and Activating Distinct Signaling Pathways," <i>J. Biol. Chem.</i> 271:14931-14936, The American Society for Biochemistry and Molecular Biology, Inc. (June 1996).

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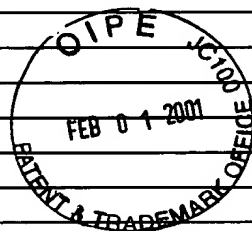
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	AR	<u>3</u>	Bringhurst, F.R., <i>et al.</i> , "Cloned, Stably Expressed Parathyroid Hormone (PTH)/PTH-Related Peptide Receptors Activate Multiple Messenger Signals and Biological Responses in LLC-PK ₁ Kidney Cells," <i>Endocrinology</i> 132:2090-2098, The Endocrine Society (1993).
	AS	<u>3</u>	Catanzariti, L. <i>et al.</i> , "A Novel Expression System for G _s -Coupled Receptors," <i>BioTechniques</i> 15:474-479, Eaton Publishing Co. (1993).
	AT	<u>3</u>	Chakravarthy, B.R., <i>et al.</i> , "Parathyroid Hormone Fragment [3-34] Stimulates Protein Kinase C (PKC) Activity in Rat Osteosarcoma and Murine T-Lymphoma Cells," <i>Biochem. Biophys. Res. Commun.</i> 171:1105-1110, Academic Press, Inc. (1990).

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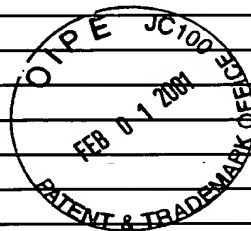
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	AR	4	Civitelli, R., et al., "Parathyroid Hormone-Related Peptide Transiently Increases Cytosolic Calcium in Osteoblast-Like Cells: Comparison with Parathyroid Hormone," <i>Endocrinology</i> 125:1204-1210, The Endocrine Society (1989).
	AS	4	Dempster, D.W., et al., "Anabolic Actions of Parathyroid Hormone on Bone," <i>Endocrine Rev.</i> 14:690-709, The Endocrine Society (1993).
	AT	4	Dohlman, H.G., et al., "Model Systems for the Study of Seven-Transmembrane-Segment Receptors," <i>Annu. Rev. Biochem.</i> 60:653-688, Annual Reviews Inc. (1991).

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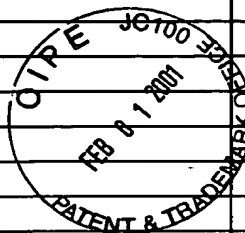
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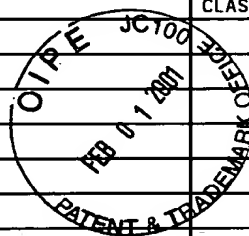
	AR	<u>5</u>	Dunlay, R., and Hruska, K., "PTH receptor coupling to phospholipase C is an alternate pathway of signal transduction in bone and kidney," <i>Am. J. Physiol.</i> 258:F223-F231, The American Physiological Society (1990).
	AS	<u>5</u>	Freyaldenhoven, A.M., et al., "Protein kinase C differentially modulates PTH- and PGE ₂ -sensitive adenylate cyclase in osteoblast-like cells," <i>Am. J. Physiol.</i> 262:E87-E95, The American Physiological Society (1992).
	AT	<u>5</u>	Fujimori, A., et al., "Dissociation of Second Messenger Activation by Parathyroid Hormone Fragments in Osteosarcoma Cells," <i>Endocrinology</i> 128:3032-3039, The Endocrine Society (1991).

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	AR	<u>6</u>	Fujimori, A., <i>et al.</i> , "Structure-Function Relationship of Parathyroid Hormone: Activation of Phospholipase-C, Protein Kinase-A and -C in Osteosarcoma Cells," <i>Endocrinology</i> 130:29-36, The Endocrine Society (1992).
	AS	<u>6</u>	Fukayama, S., <i>et al.</i> , "Mechanisms of Desensitization to Parathyroid Hormone in Human Osteoblast-Like SaOS-2 Cells," <i>Endocrinology</i> 131:1757-1769, The Endocrine Society (1992).
	AT	<u>6</u>	Fukayama, S., <i>et al.</i> , "Role of Protein Kinase-A in Homologous Down-Regulation of Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Messenger Ribonucleic Acid in Human Osteoblast-Like SaOS-2 Cells," <i>Endocrinology</i> 134:1851-1858, The Endocrine Society (1994).

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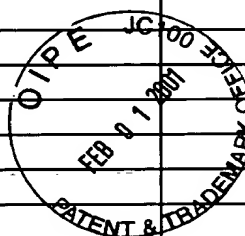
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	AR	Z	Guo, J., <i>et al.</i> , "Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Density Modulates Activation of Phospholipase C and Phosphate Transport by PTH in LLC-PK1 Cells," <i>Endocrinology</i> 136:3884-3891, The Endocrine Society (1995).
	AS	Z	Jans, D.A., and Hemmings, B.A., "LLC-PK ₁ cell mutants in cAMP metabolism respond normally to phorbol esters," <i>FEBS Lett.</i> 205:127-131, Elsevier Science B.V. (1986).
	AT	Z	Janulis, M., <i>et al.</i> , "Structure-Function Requirements of Parathyroid Hormone for Stimulation of 1,25-Dihydroxyvitamin D ₃ Production by Rat Renal Proximal Tubules," <i>Endocrinology</i> 133:713-719, The Endocrine Society (1993).

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John W.

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	AR	8	Jouishomme, H., et al., "The Protein Kinase-C Activation Domain of the Parathyroid Hormone," <i>Endocrinology</i> 130:53-60, The Endocrine Society (1992).
	AS	8	Jüppner, H., et al., "A G Protein-Linked Receptor for Parathyroid Hormone and Parathyroid Hormone-Related Peptide," <i>Science</i> 254:1024-1026, American Association for the Advancement of Science (1991).
	AT	8	Kaufmann, M., et al., "Functional expression of a stably transfected parathyroid hormone/parathyroid hormone related protein receptor complementary DNA in CHO cells," <i>Mol. Cell. Endocrinol.</i> 104:21-27, Elsevier Science Ireland Ltd. (1994).

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	AR	2	Menniti, F.S., <i>et al.</i> , "Different Modes of Regulation for Receptors Activating Phospholipase C in the Rat Pancreatoma Cell Line AR4-2J," <i>Mol. Pharmacol.</i> 40:727-733, The American Society for Pharmacology and Experimental Therapeutics (1991).
	AS	2	Mitchell, J., and Goltzman, D., "Mechanisms of Homologous and Heterologous Regulation of Parathyroid Hormone Receptors in the Rat Osteosarcoma Cell Line UMR-106," <i>Endocrinology</i> 126:2650-2660, The Endocrine Society (1990).
	AT	2	Neugebauer, W., <i>et al.</i> , "Solution Structure and Adenylyl Cyclase Stimulating Activities of C-Terminal Truncated Human Parathyroid Hormone Analogues," <i>Biochemistry</i> 34:8835-8842, American Chemical Society (1995).

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John W. [Signature]

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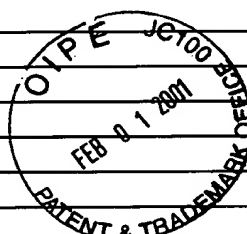
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	AR	10	Pines, M., <i>et al.</i> , "Generation and Characterization of Human Kidney Cell Lines Stably Expressing Recombinant Human PTH/PTHrP Receptor: Lack of Interaction with a C-Terminal Human PTH Peptide," <i>Endocrinology</i> 135:1713-1716, The Endocrine Society (1994).
	AS	10	Pines, M., <i>et al.</i> , "Inositol 1-,4-,5-Trisphosphate-Dependent Ca ²⁺ Signaling by the Recombinant Human PTH/PTHrP Receptor Stably Expressed in a Human Kidney Cell Line," <i>Bone</i> 18:381-389, Elsevier Science Inc. (April 1996).
	AT	10	Reid, I.R., <i>et al.</i> , "Parathyroid hormone acutely elevates intracellular calcium in osteoblastlike cells," <i>Am. J. Physiol.</i> 253:E45-E51, The American Physiological Society (1987).

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	AR	11	Rixon, R.H., <i>et al.</i> , "Parathyroid Hormone Fragments May Stimulate Bone Growth in Ovariectomized Rats by Activating Adenyl Cyclase," <i>J. Bone Miner. Res.</i> 9:1179-1189, Mary Ann Liebert, Inc. (1994).
	AS	11	Schipani, E., <i>et al.</i> , "A Constitutively Active Mutant PTH-PTHrP Receptor in Jansen-Type Metaphyseal Chondrodysplasia," <i>Science</i> 268:98-100, American Association for the Advancement of Science (1995).
	AT	11	Schneider, H., <i>et al.</i> , "Cloning and functional expression of a human parathyroid hormone receptor," <i>Eur. J. Pharmacol. - Mol. Pharmacol. Sect.</i> 246:149-155, Elsevier Science B.V. (1993).

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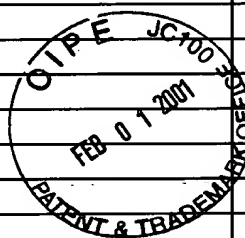
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	AR	12	Schneider, H., <i>et al.</i> , "A C-terminally truncated human parathyroid hormone receptor is functional and activates multiple G proteins," <i>FEBS Lett.</i> 351:281-285, Elsevier Science B.V. (1994).
	AS	12	Shukunami, C., <i>et al.</i> , "Chondrogenic Differentiation of Clonal Mouse Embryonic Cell Line ATDC5 In Vitro: Differentiation-dependent Gene Expression of Parathyroid Hormone (PTH)/PTH-related Peptide Receptor," <i>J. Cell Biol.</i> 133:457-468, The Rockefeller University Press (April 1996).
	AT	12	Simon, M.I., <i>et al.</i> , "Diversity of G Proteins in Signal Transduction," <i>Science</i> 252:802-808, American Association for the Advancement of Science (1991).

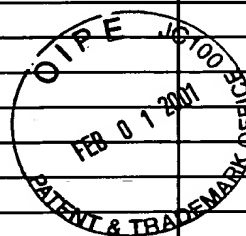
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0609.4430001/JAG/CMB	APPLICATION NO. 09/696,982
	APPLICANT Bringham et al.	
	FILING DATE October 27, 2000	GROUP 1646

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
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	AJ						
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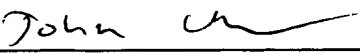
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	13	Takasu, H. et al., "Dual Signaling and Ligand Selectivity of the Human PTH/PTHrP Receptor," <i>J. Bone & Mineral Res.</i> 14:11-20, American Society for Bone and Mineral Research (January 1999).
	AS	13	Ullrich, A., and Schlessinger, J., "Signal Transduction by Receptors with Tyrosine Kinase Activity," <i>Cell</i> 61:203-212, Cell Press (1990).
	AT	13	Whitfield, J.F., and Morley, P., "Small bone-building fragments of parathyroid hormone: new therapeutic agents for osteoporosis," <i>Trends Pharmacol. Sci.</i> 16:382-386, Elsevier Science Ltd (1995).




EXAMINER 	DATE CONSIDERED 10-31-07
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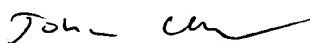
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	14	Yamaguchi, D.T., et al., "Parathyroid Hormone-activated Calcium Channels in an Osteoblast-like Clonal Osteosarcoma Cell Line: cAMP-dependent and cAMP-independent Calcium Channels," <i>J. Biol. Chem.</i> 262:7711-7718, The American Society of Biological Chemists, Inc. (1987).
	AS	14	Yamamoto, I., et al., "Characterization and Agonist-Induced Down-Regulation of Parathyroid Hormone Receptors in Clonal Rat Osteosarcoma Cells," <i>Endocrinology</i> 122:1208-1217, The Endocrine Society (1988).
	AT	14	Co-Pending U.S. Patent Application No. 08/903,977, Bringham et al., filed July 31, 1997.

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